

# Geometry      Converse of Pythagorean Theorem

1. What is your name?

- Open the Converse document that is on the class wiki site at [http://  
watertowngeometry.wikispaces.com/Unit+9](http://watertowngeometry.wikispaces.com/Unit+9)

2. How does  $c^2$  compare to  $a^2 + b^2$ ?

- Measure  $\angle C$ .

3. What kind of triangle is  $\triangle ABC$ ?

- Drag a point on the triangle so that  $\angle C$  is obtuse.
- Double click on the table so it “freezes” the measurements.
- Drag the triangle so that  $\angle C$  is a different obtuse angle and double click on the table again. Repeat this process until you have at least 3 obtuse triangle measurements in the table.

4. When the triangle is obtuse, how does  $c^2$  compare to  $a^2 + b^2$ ?

- Drag a point on the triangle so that  $\angle C$  is acute.
- Double click on the table so it “freezes” the measurements.
- Drag the triangle so that  $\angle C$  is a different acute angle and double click on the table again. Repeat this process until you have at least 3 acute triangle measurements in the table.

5. When the triangle is acute, how does  $c^2$  compare to  $a^2 + b^2$ ?

- Hand-in this document into the top basket.

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“I’m very busy this time of year, so I’ll keep my Holiday Newsletter brief.  
Our family is so much happier and more successful than yours,  
so you should be very jealous. Season’s Greetings, The Johnsons.”